2922-1896

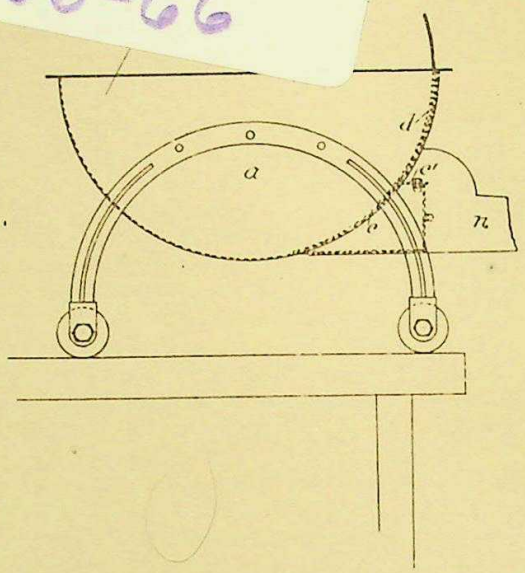
[This Drawing is a reproduction of the Original on a reduced scale.]

British

259-1896
366-66
59

(2 SHEETS) SHEET 1

Fig. 1.



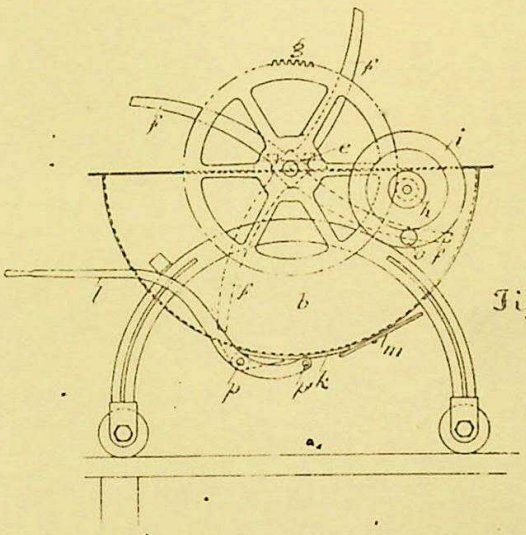


Fig. 2.

Malby & Sons Photo-Litho

SHEET 2

mortar mixer

lime tank

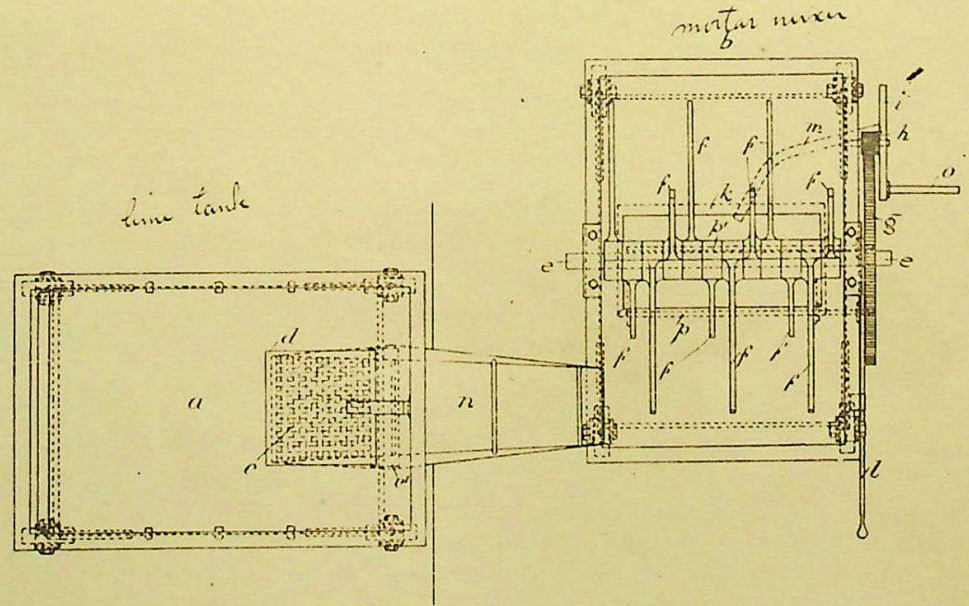


Fig. 3.

Printed by Darling and Son, Ltd.
for His Majesty's Stationery Office. 1896.

A.D. 1896, Feb. 8. N° 2922.
PILGRIM & another's Complete Specification.

N° 2922 A.D. 1896

Date of Application, 8th Feb., 1896
Complete Specification Left, 29th Oct., 1896—Accepted, 12th Dec., 1896

DUPLICATE

PROVISIONAL SPECIFICATION.

New or Improved Machinery for Mixing Mortar for Building Purposes.

We ROBERT PILGRIM, of 96 Upland Road, Gentleman, and JOHN PEMBERTON, of 75 Ulverscroft Road, Labourer, both of East Dulwich in the County of London, do hereby declare the nature of this invention to be as follows :—

This invention relates to machinery for making mortar for building purposes, by which the mortar is mixed better and more quickly than heretofore.

According to this invention, I have two tanks of suitable form, preferably mounted on wheels, and through the first tank, which I term "the lime-runner," I pass a spindle on which I fix a number of claws or blades, for mixing the lime and water, by which the lime is slaked. I also fix a movable sieve on this tank, and I provide a slide to protect the aforesaid sieve from being damaged by the claws or blades aforesaid. I also provide a spring blade for clearing the core out of this tank, and when the lime becomes slaked and fit for use, it is passed into the second tank, which may be similar in form to the first one. This tank I term the "mortar-mixer," and this is also provided with a mixer, for mixing the mortar, and in this second tank the lime is mixed up with the sand or sand and hair. The above machinery may be worked by hand or power.

Suitable outlets are provided in the aforesaid tanks.

Dated this Eighth day of February 1896.

BROWNE & Co.,
9 Warwick Court, Gray's Inn, London, W.C.,
Agents for the Applicants.

COMPLETE SPECIFICATION.

New or Improved Machinery for Mixing Mortar for Building Purposes.

We ROBERT PILGRIM, of 96 Upland Road, Gentleman, and JOHN PEMBERTON of 75 Ulverscroft Road, Labourer, both of East Dulwich in the County of London, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement :—

This invention relates to machinery for making and mixing mortar for building purposes, by which the mortar is mixed better and more quickly than heretofore.

According to this invention, we have two tanks of suitable form, preferably mounted on wheels; the first one we term the "lime runner"; we fix a moveable sieve on this tank and a slide to protect the sieve from being damaged. When the lime becomes slaked, in this tank, and fit for use, it is passed into the second tank, which may be similar in form to the first one, but is provided with mixing mechanism

hereafter described, and this tank we term the "mortar mixer"; in this latter tank, the lime is mixed up together with the sand and hair or the sand only.

The above machinery may be worked by hand or power.

And in order that our said invention may be better understood we will now proceed to describe the same with reference to the drawing accompanying this specification, in which

Fig. 1 shews a front elevation of the lime runner and

Fig. 2 side elevation of the mortar mixer.

Fig. 3 plan of the whole machinery in position.

The same letters denote the same parts in all the views.

a shews the first tank or "lime runner," *b* the second tank, or "mortar mixer." Both of these tanks are preferably mounted on wheels. A sieve *c* is fitted to the lime runner *a*. c^1 is a movable cap. A sliding cover *d* is provided to the sieve *c*. Through the mortar mixer *b* we pass a spindle *e* on which we fix a number of claws or blades *f*. *g* shews a spur wheel, *h* a pinion, and *i* a hand wheel, for actuating the blades *f*. *k* shews a trap door at the bottom of the mortar mixer *b*, opened and shut by means of the handle *l*, *m* is a catch for securing the trap *k*, *n* shews a shoot, broken off at Fig. 1.

The action is as follows:—

The lime is slaked in the tank or lime runner *a*; the lime may also be mixed in this tank by means of a larry. The slide *d* is then drawn up so as to allow the slaked lime to pass through the sieve *c* and run into the second tank or mortar mixer *b* by the shoot, and after having introduced the sand and hair, the shaft *e* is rotated either by hand or power so as to mix the mortar by means of the blades *f*. The spur wheel *g* is keyed on to the shaft *e*, said wheel engages with the pinion *h* which is connected with the hand wheel *i* which latter may be rotated by the handle *o*. When the mortar is sufficiently mixed, the flap or door *k* is opened so as to discharge the mortar. In order to open the door *k*, the lever *l* is raised; this lever works on a rod *p* which rod also forms the hinge of the flap *k*; and through the end of the lever *l* another rod p^1 passes, which rod is fixed to the bottom of the flap or door *k*; it will thus be seen that upon withdrawing the catch *m* and raising the lever *l*, the flap or door will open, the reverse action will close it.

It will be seen that we have shewn the framework of the tanks *a* and *b* mounted on wheels to facilitate their transport we have also mounted the tanks on stages of different heights (see Fig. 1) the one communicating with the other by means of the shoot, as shewn at Fig. 3, which is the position we prefer.

The sieve may be changed for one of a coarser or finer mesh as may be desired, by unscrewing the nuts and taking off the cap c^1.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. The new or improved machinery for mixing mortar for building purposes.
2. In machinery for mixing mortar the employment of rotating blades fitted in a tank for the purpose set forth.

Dated this 29th day of October 1896.

BROWNE & Co.,
9 Warwick Court, Gray's Inn, London, W.C.,
Agents for the Applicants.

London: Printed for Her Majesty's Stationery Office, by Darling & Son, Ltd.—1896